

United States Department of Agriculture
U.S. EXTENSION SERVICE
Washington, D. C.

November 1, 1941.

PARTIAL LIST OF PUBLICATIONS

of the

United States Department of Agriculture
and

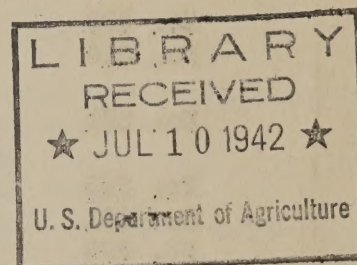
State Agricultural Extension Services and Experiment Stations

on the

OPERATION, CARE, AND REPAIR OF FARM MACHINERY

Compiled By

S. P. Lyle, Extension Service



United States Department of Agriculture.

Farmers' Bulletin:

No. 1045	Laying out fields for tractor plowing. (1936.)
No. 1525	Effective haying equipment and practices. (1931.)
No. 1526	Clearing land of brush and stumps. (1936.)
No. 1577	Harvesting grain sorghums. (1928.)
No. 1589	The husker-shredder on Eastern Corn Belt farms. (1928.)
No. 1662	Husker-shredders in corn-borer control. (1931.)
No. 1690	Plowing with moldboard plows. (1932.)
No. 1729	Machinery for dusting cotton. (1934.)
No. 1754	Care and repair of mowers and binders. (1936.)
No. 1761	Harvesting with combines. (1936.)
No. 1801	Making lime on the farm. (1938.)
No. 1816	Mechanizing the corn harvest. (1938.)
No. 1858	Electric motors on the farm. (1940.)

Leaflet:

No. 97	Cross blocking sugar beets by machine. (1933.)
No. 107	The barrel seed scarifier. (1934.)

Miscellaneous Publication:

No. 38	Research in mechanical farm equipment. (1928.)
No. 142	Construction of sled-type cornstalk shavers. (1932.)
No. 157	Power and machinery in agriculture. (1933.)
No. 212	A low-cutting sled corn cutter. (1935.)

Technical Bulletin:

- No. 70 The combined harvester-thresher in the Great Plains. (1928.)
No. 497 Utilization and cost of power on Mississippi and Arkansas delta plantations. (1936.)
No. 669 Fertilizer placement for potatoes. (1939.)

Circular:

- No. 132 Fighting the corn borer with machinery in the two-generation area. (1930.)
No. 264 Mechanical application of fertilizers to cotton in South Carolina, 1931. (1933.)
No. 287 Burning for the control of aphids on alfalfa in the Antelope Valley, California. (1933.)
No. 292 Artificial drying of rice on the farm. (1933.)
No. 316 Agronomic evaluation tests on mechanical blocking and cross cultivation of sugar beets. (1934.)
No. 321 Use of farm machinery for corn-borer control in the one-generation area. (1934.)
No. 345 Barrel and disk seed scarifier. (1935.)
No. 361 Removing smut balls from seed wheat. (1935.)
No. 399 Fertilizer placement studies on snap beans in Florida. (1936.)
No. 415 Equipment for applying dust fungicides to seed grain. (1936.)
No. 443 Artificial drying of forage crops. (1937.)
No. 470 Performance characteristics of 5- and 6-foot combines. (1938.)
No. 540 Cotton tillage studies on red bay sandy loam. (1940.)
No. 581 Harvesting Pyrethrum. (1940.)
No. 592 Machinery for growing corn.
No. 598 Experiments in the use of vapor spray equipment.

Yearbook Separate:

- No. 1625 Tillage machinery. (1939.)

California.--College of Agriculture, University of California, Berkeley.
State Extension Publications.

Extension Circular:

- No. 111 Protection of orchards against frost.

Extension Bulletin:

- No. 362 Dust and the tractor engine.
No. 476 Poultry houses and equipment.
No. 477 Improved methods of harvesting grain sorghum.

California--contd.

State Extension Publications--contd.

Extension Bulletin:

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| No. 499 | Air cleaners for motor vehicles. |
| No. 541 | Harvesting and drying rough rice in California. |
| No. 577 | Spark arresters for motorized equipment. |
| No. 580 | Thresher and other mechanical injury to seed beans of the Lima type. |
| No. 596 | Sulphuric acid for the control of weeds. |
| No. 618 | Electric pig brooders. |
| No. 634 | A new selective spray for control of certain weeds. |
| No. 643 | Operation of orchard heaters. |
| No. 650 | Electric sterilizing equipment for farm dairies. |

Agricultural Engineering Information Series (mimeographed).

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| No. 4 | Attachments for disks to control depth of tillage. |
| No. 6 | Attachments for mowers to cut vetch. |
| No. 9 | Feed grinding and feed mills. |
| No. 11 | Handling feed molasses on the farm. |
| No. 15 | Data on spray guns, spray hose, and pipelines. |
| No. 16 | Butane fuel for farm use. |
| No. 17 | Flax harvesting investigations. (1939.) |

Colorado---Colorado Agricultural and Mechanical College, Fort Collins. State Experiment Station Publications.

Bulletin:

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| No. 443 | Home-made farm equipment. Wm. P. Kintzley.
(April 1938.) |
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Connecticut---College of Agriculture, University of Connecticut, Storrs. State Extension Publications.

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| Circular (Mimeog.): | Farm labor and machinery in the present emergency
(1941). Harold E. Pinches, J. S. Owens. |
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Illinois---College of Agriculture, University of Illinois, Urbana. State Experiment Station and Extension Publications.

Circular:

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|---------|---|
| No. 309 | Farm machinery, its purpose, care, operation, and adjustment. R. I. Shawl. (Rev. January 1935.) |
| No. 499 | Tractor repair and maintenance. R. I. Shawl.
(Rev. November 1939.) |
| No. 450 | Better plowing. T. Cleaver and R. I. Shawl.
(Rev. December 1938.) |

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Illinois.--contd.

State Experiment Station and Extension Publications--contd.

Agricultural Engineering:

- No. 74 Analyzing the problem of machinery selection (Sec. I); Selecting tractors and machinery to fit the farm (Sec. II). Addresses delivered during Farm and Home Week, January 15, 1936 and January 14, 1937. R. H. Reed.
- No. 89 Study of power, machinery, and labor requirements: Fuel and oil record. Project No. 801. (March 19, 1937.)
- No. 173 Filling Illinois silos. R. H. Reed. (June 1938.)
- No. 230 Harvesting and storing of chopped hay. R. H. Reed. (May 1934.)
- No. 252 Electric silo filling. R. R. Parks. (January 1940.)
- No. 295 How to keep tractor power up and fuel costs down as shown by 1940 Illinois farm tractor tests. H. P. Bateman and G. M. Petersen. (January 1941.)
- No. 308 The selection and operation of electric motors for the farm. C. W. Veach. (July 1941.)

Indiana.--Purdue University, La Fayette. State Experiment Station Publications.

Circular:

- No. 217 The Purdue plow trash shield. (1936.)

Bulletin:

- No. 362 Mechanical corn pickers in Indiana. (1932.)
- No. 436 Economic study of harvesting with the small combine in Indiana. (1939.)
- No. 437 Cost of using farm machinery in Indiana. (1939.)

Iowa.--Iowa State College of Agriculture and Mechanic Arts, Ames. State Extension Publications.

Circular:

- No. 192 Adjustment and repair of mowers. Virtue, McKibben, and Struthers. (Rev. October 1939.)
- No. 209 Adjustment and repair of grain binders. M. A. Sharp and B. T. Virtue. (December 1934.)

Bulletin:

- No. 24 Rope and its uses. A. A. Burgher. (1932.)
- No. P-9 (new series) Rubber-tiring farm machines. Struthers and Bennett. (April 1940.)

Iowa.--contd.

State Extension Publications.

Bulletin:

In press Life, service and cost of service of farm machines.
Dr. J. B. Davidson and Milton Henderson.

State Experiment Station Publications.

Bul. No. 382 Life, service and cost of service of pneumatic
tractor tires. McKibben and Davidson. (Septem-
ber 1939.)

Iowa Research

Bul. 258 Cost and utilization of power and labor on Iowa
farms. Wylie D. Goodsell. (June 1939.)

A.S.A.E. Journal

Reprint No. 675 Why Not left-handed disk jointers? Collins
and Shedd. (1940.)

Kansas.--Kansas State College of Agriculture and Applied Science, Manhattan.
State Extension Publications.

Circular:

No. 21 Tractor overheating - causes and remedies.
(October 1939.)
No. 22 Tractor lighting equipment. (February 1940.)
No. 37 Lister adjustment for sorghums. (April 1941.)

Bulletin:

No. 63 Wiring the farmstead. (Rev. May 1938.)
No. 69 Electric motors for the farm. (May 1931.)
No. 87 Feed grinding with small electric motors.
(September 1941.)

State Experiment Station Publications.

Bulletin:

No. 22 The farm shop. (September 1929.)
No. 27 Farm grinding of grain and forage. (May 1931.)
No. 30 Farm lighting systems. (June 1932.)
No. 35 Durability tests of belt lacings and fasteners.
(August 1936.)
No. 36 Buildings and equipment for vocational agricul-
ture instruction. (March 1938.)
No. 37 Tractor fuels. (May 1939.)

Maine.--College of Agriculture, University of Maine, Orono.
State Extension Publications.

Bul. No. 291 Repairing and adjusting mowing machines. E. C.
Meyer, M. G. Huber. (June 1941.)

State Experiment Station Publication.

Bul. No. 365 The effect of handling methods on quality of
Maine potatoes. Wm. E. Schrumpf. (April 1933.)

Maryland.--College of Agriculture, University of Maryland, College Park.
State Experiment Station Publication.

Bul. No. 362 Crop and soil management practices - the upkeep
of farm implements and machinery. R. E. Sellman.
(April 1934.) (Out of print. May be on file in
libraries.)

Michigan.--Michigan State College of Agriculture and Applied Science, East
Lansing. State Extension Publication.

Bulletin:

No. 134	Common binder head and knotter head troubles. Musselman and Bell. (December 1933.)
No. 153	Care and repair of mowing machines. Bell. (December 1935.)
No. —*	General machinery repair.
No. —*	Care and repair of tractors.
No. —*	Feed grinding and handling.
No. —*	Farm machinery management.
No. —*	Care and repair of spray rigs.

State Experiment Station Publication.

Reprints from	Muslin tube fruit juice filter.
Michigan Exper-	Rubber tired wagon.
iment Station	Small combine thresher.
Quarterly	Traction tests of single pneumatic tires.

Minnesota.--Department of Agriculture, University of Minnesota, University
Farm, St. Paul.
State Extension Publications.

Bulletin:

No. 212 Clearing land with a bulldozer. A. J. Schwantes
and M. J. Thompson. (May 1940.)

*Will be available after January 1, 1942.

Minnesota--contd.

State Extension Publication.

Bulletin:

- No. 213 Combine harvesting in Minnesota. A. J. Schwantes.
 (June 1940.)
- No. 221 Electric motors on the farm. Norton Ives and
 Andrew Hustrulid. (June 1941.)
- Pamphlet No. 81 Potato vine lifter. A. H. Thompson. (June 1941.)
 (Mimeog.)

State Experiment Station Publication.

- Bulletin No. 290 Filling silos with the field ensilage harvester.
 A. J. Schwantes and J. B. Torrance. (Rev.
 July 1937.)
- Reprint No. 122 Tractor costs and rate of performance. G. A.
 Pond and A. J. Schwantes, Division of Agriculture
 Economics. (April 1941.) (Mimeog.)

Mississippi---Mississippi State College, State College.

State Experiment Station Publication.

Bulletin:

- No. 215 Sweetpotato vine silage, State College. (1940.)
- No. 244 Cotton Cultivation, State College. (1941.)
- No. 295 Farm power in the Yazoo-Mississippi Delta. (1931.)
- No. 298 Making cotton cheaper. (1932.)
- No. 312 Compilation of experimental and other data on corn
 planting and cultivation.
- No. 323 Cotton land preparation, planting, and cultiva-
 tion. (1938.)
- No. 337 Farm mechanics. (1939.)
- No. 352 Factors for success on starch sweetpotato and gen-
 eral farms in Jones county.

Missouri---College of Agriculture, University of Missouri, Columbia.

State Extension Publication.

- Cir. No. 352 Home grinding limestone. O. T. Coleman.
 (September 1936.)

State Experiment Station Publication.

Bulletin:

- No. 303 Silo filling methods and costs. M. M. Jones and
 and D. D. Smith. (May 1931.) (Out of print,
 but in libraries.)

Missouri--contd.

State Experiment Station Publication.

Bulletin:

- No. 426 Combine harvesters in Missouri. M. M. Jones and R. P. Beasley. (April 1941.)
Research Bul. 197 Power, labor and machine costs. D. D. Smith and M. M. Jones. (June 1933.) (Out of print but in libraries.)

Nebraska.--College of Agriculture, University of Nebraska, Lincoln.

State Extension Publication.

Circular:

- No. 700 Use of rope on the farm. Virgil Overholt. (1940.)
No. 702 Grinding the farm tools. L. M. Roehl. (1938.)
No. 734 Soldering. R. M. Loper and E. A. Olson. (1941.)
No. 736 Rope making. E. A. Olson. (1939.)
No. 739 Adjustment and repair of farm machinery. I. D. Wood and O. J. Trenary. (February 1933.)
No. 742 A homemade farm forge. R. M. Loper and E. A. Olson. (1941.)
No. 743 Simple forge hints for farm use. W. J. Runnalls. (1935.)
No. 745 Fitting the farm saws. L. M. Roehl. (1935.)

State Experiment Station Publication.

- Circular No. 64 Adjusting corn planters and listers for sorghum. L. W. Hurlbut. (1940.)

Bulletin:

- No. 302 Processing feeds on Nebraska farms. E. E. Brackett and E. B. Lewis. (1936.)
No. 324 Cost of tractor power on Nebraska farms. Frank Miller, W. L. Ruden and C. W. Smith. (1939.)
No. 330 The Nebraska Tractor Tests. (1941.)
No. 334 Oil filters for internal combustion engines. C. W. Smith, T. B. Johnson, and E. L. Munter. (1941.)

New Hampshire.--University of New Hampshire, Durham.

State Extension Publication.

Circular:

- No. 235 Potato vine lifters. George M. Foulkrod and Paul T. Blood. (January 1941.)
No. 231 Streamlining your old sewing machine.

New Hampshire--contd.

Experiment Station Publication.

Circular No. 43 Power for the grindstone. H. N. Colby and W. T. Ackerman. (February 1935.)

New York.--New York State College of Agriculture, Ithaca.
State Extension Publication.

Bulletin:

No. 57	Soldering. F. G. Behrends. (Reprinted November 1938.)
No. 94	Fitting the farm saws. L. M. Roehl. (Rev. June 1933.)
No. 108	Farm shop and tool equipment. L. M. Roehl. (Reprinted September 1940.)
No. 133	Gas engine on the farm - starting troubles and their remedy. F. G. Behrends and F. L. Fairbanks. (Reprinted April 1936.)
No. 147	Gas engine on the farm - running troubles and their remedy. F. G. Behrends and F. L. Fairbanks. (Reprinted January 1935.)
No. 244	Hay racks. L. M. Roehl. (Reprinted June 1935.)
No. 381	Plow adjustment. B. A. Jennings. (Rev. April 1939.)
No. 378	Grinding farm tools. L. M. Roehl. (Reprinted May 1939.)
No. 385	Repairing the spring-tooth harrow. B. A. Jennings. (February 1938.)
No. 417	Binder adjustments. B. A. Jennings. (September 1939.)
In press	Repairing the mowing machine.

North Dakota.--North Dakota Agricultural College, State College Station, Fargo.
State Extension Publication.

Circulars:

No. 94 Distillates as a tractor fuel. H. F. McColly. (September 1930.)

Bulletin:

No. 305 Cost of power farming - its improvements and work accomplishments. Thomas E. Long. (June 1941.)

A.E. No. 18 Sharpening and care of ordinary farm tools. (January 1937.)

State Experiment Station Publication.

A.E.S. Bul. 244 Control of quack grass by tillage. T. E. Stoa, and others. Washington, D. C. (1930.)

Ohio.--College of Agriculture, Ohio State University, Columbus.
State Extension Publications.

Circular (Mimeog.): Adjustments of the farm mower.
Farm sprayers.
Buckrakes.

Bulletin:

No. 80 Plows and good plowing.
No. 82 Use of rope on the farm. V. Overholt. (1934.)
No. 87 Common binder head and knotter head troubles.
C. O. Reed and R. D. Barden. (1935.)
No. 140 Your sewing machine.

State Experiment Station Publication.

Bulletin Rubber tires for farm machinery.
Charts and mimeographed factual material for
figuring power and labor requirements.

Pennsylvania.--Pennsylvania State College, State College.
State Extension Publications.

Circular No. 224 Mower adjustment and repair. V. S. Peterson.
(June 1940.)
Mimeograph Causes and remedies of binder troubles. V. S.
Peterson. (June 1941.)

State Experiment Station Publication.

Bulletin No. 343 Using the tractor efficiently. A. W. Clyde.
(April 1937.)

South Carolina.--Clemson Agricultural College of South Carolina, Clemson.
State Extension Publications.

Circular No. 173 Mower parts and adjustment. C. V. Phagan.
(July 1939.)

Farm Machinery Circular:

No. 1 Binders and combines, care and operation.
No. 2 Tips on tractor troubles.
No. 3 Methods of harvesting crimson clover.
No. 4 Filling the silo with small power units.
No. 5 Corn cutter sled type.

State Experiment Station Publication.

Bulletin No. 280 Farm power utilization and costs. (1931.)

Tennessee.--College of Agriculture, University of Tennessee, Knoxville.
State Extension Publications.

- No. 214 Small grain in contour furrows on Lespedeza sod.
(Reprint August 1939.)
- No. 222 A portable motor for Tennessee farms. M. M.
Johns. (Reprint September 1940.)
- No. 240 Mower repairs and adjustments. Earle K. Rambo
and G. E. Martin. (September 1940.)
- No. 250 Watering the farm garden. M. M. Johns and
W. C. Pelton. (May 1941.)
- Ext. Leaflet No. 2 A small thresher for Tennessee farms. M. T.
Gowder and C. G. Filler. (April 1941.)

Texas.--Agricultural and Mechanical College of Texas, College Station.
State Experiment Station Publications.

Bulletin:

- No. 452 The mechanical harvesting of cotton. (1932.)
- No. 484 Rate of evaporation in Texas. (1933.)
- No. 494 Growing cotton under irrigation in the Wichita
Valley of Texas. (1934.)
- No. 511 Progress in the study of the mechanical harvest-
ing of cotton. (1935.)
- No. 526 Calibration of cotton planting mechanisms. (1936.)
- No. 548 Machine placement of fertilizer for cotton. (1937.)
- No. 580 Mechanical harvesting of cotton as affected by
varietal characteristics and other factors.
(1939.)
- No. 587 Water and soil conservation experiments at Spur,
Texas. (1940.)
- No. 597 Land use in relation to sedimentation in reser-
voirs, Trinity River Basin, Texas. (1941.)

Wisconsin.--College of Agriculture, University of Wisconsin, Madison.
State Extension Publication.

- Circular No. 283 Housing farm machinery. S. A. Witzel and F. W.
Duffee. (September 1936.)

Commercial Publications.

The operation, care and repair of farm machines. John Deere,
Moline, Ill.

Bul. No. FT-58: Farm tractors - fuel and lubricants. Standard Oil
Company of Indiana, Chicago, Ill.

Bul. No. 30: Hitches for agricultural implements. Caterpillar Tractor
Company, Peoria, Ill.

The farm shop - practical information on best farm shop methods.
Farm Mechanics Magazine, 407 S. Dearborn St., Chicago, Ill.

Repairing farm machinery. Ivan G. Morrison. 1940. Published by The
Interstate, Danville, Ill.

How to get the most out of your tractor. Imperial Oil Limited, Toronto,
Canada.

The farm workshop and woodlands. E. C. Atkins and Co., Indianapolis,
Ind.

The Stanley Tool Guide. Stanley Tool Company, New Britain, Conn.

Illustrative Material by V. S. Peterson (Pennsylvania) from Visual Aid Survey of 1940:

U. S. Department of Agriculture.

History and development of farm machines - film strip
Plows and plowing - film strip

State Extension Services.

Missouri:

Set of charts on repair and adjustment of mowers, binders, etc.
Ignition systems on internal combustion engines - film.

Georgia:

2- by 2-inch color slides on Power and Machinery

Iowa:

The farm tractor (operation and fuel economy). 25 slides.
Feed grinding. 30 slides.
Rubber tiring farm machines. Film strip
Farm machinery adjustment. 25 slides.

Ohio:

Power and machinery. Charts, models, and 80 slides

Pennsylvania:

The adjustment and repair of machinery. "Movie," 16 mm., 1 reel
2- by 2-inch and 3½- by 4-inch slides on mower, binder, combine,
and potato digger - operation, adjustment, and repair.
The farm shop and equipment. 16 mm. movies and slides.
Short cuts to hay making. 16 mm., 2 reels.

Commercial.

An ounce of prevention (tractor operation, adjustment and repair). Film strip and record. Ethyl Gasoline Corporation, Agriculture Division, Detroit, Mich.
Hints in the care and operation of tractors. Film strip. Standard Oil Co. of Indiana, Chicago, Ill.
Grass silage and grass silage machinery. Sound movie. Portland Cement Association, Chicago, Ill.
Power at the draw-bar. Sound movie. The Texas Co., Crysler Building, New York City.

CHAPTER I. THE DISTRICT OF COLUMBIA

1. The District of Columbia is a unique political entity, created by the Constitution and the Organic Act of 1800.

SECTION 1. THE DISTRICT OF COLUMBIA

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